

# SINGLE FAMILY VIDEO INTERCOM SYSTEM

## USER'S MANUAL FOR VT691D

### FEATURES

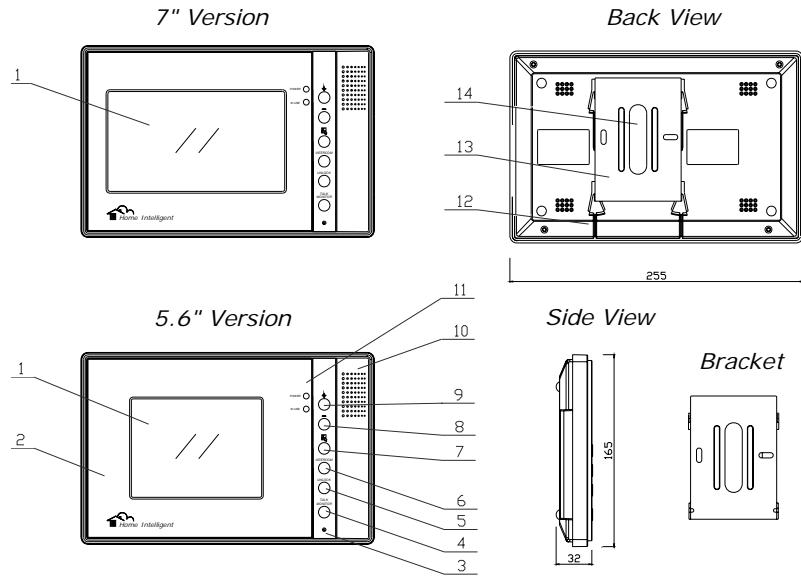
- 5.6 OR 7 INCH TFT-LCD
- DIGITAL IMAGE AND VOLUME ADJUST WITH OSD MENU
- 15 CHORD TUNES SELECTABLE
- INTERCOM FUNCTION
- UP TO 4 DOOR STATIONS VIA VT-MSD SWITCHER
- DIRECTLY CONNECTING UP TO 4 MONITORS
- 4 WIRING LATCH CONNECTED WITH DOOR STATION

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*All the safety and operating instructions in this manual should be read before the unit is operated, and keep it for future reference.*

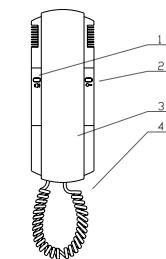
## 1. MONITOR



1. TFT-LCD Screen
2. Aluminum Panel
3. Microphone
4. TALK/MONITOR Button
5. UNLOCK Button
6. INTERCOM Button
7. MENU Button

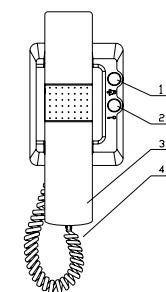
8. -, Decrease Button
9. +, Increase Button
10. Loud Speaker
11. LED for Power, In-use
12. Bracket Location
13. Mounting Bracket
14. Wiring Terminals

## 2. AUDIO PHONE



**Dimensions:** 215(H) x 80(W) x 45(D)

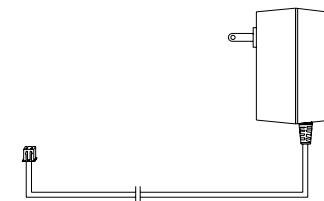
1. Intercom Button
2. Unlock Button
3. Handset
4. Handset Curve



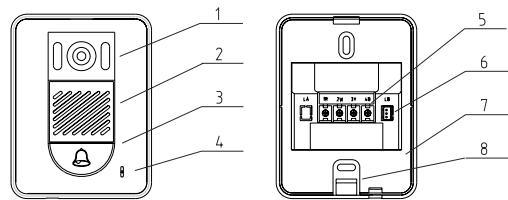
**Dimensions:** 210(H) x 90(W) x 45(D)

1. Intercom Button
2. Unlock Button
3. Handset
4. Handset Curve

## 3. ADAPTOR



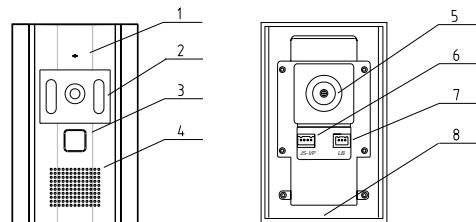
## 4. DOOR STATION



**Dimensions:** 128(H)x98(W)x43(D)

- 1. Camera
- 2. Speaker
- 3. Call Button
- 4. Microphone

- 5. Connection Terminal
- 6. Unlock Port LB
- 7. Mount Bracket
- 8. Fixing Hook



**Dimensions:** 150(H)x95(W)x43(D)

- 1. Microphone
- 2. Camera
- 3. Call Button
- 4. Speaker

- 5. Camera angle adjust
- 6. Connection Port
- 7. Unlock Port LB
- 8. Mount fixing position

## 5. OPERATION

### ■ Operation for Basic Video Doorphone

- 1) When visitor presses the Call Button on the Door Station, the monitor rings, at the same time, the screen displays the visitor image.
- 2) When press TALK/MONITOR Button, you can talk with the visitors for 90 seconds; During the talk state, press TALK/MONITOR again to end. If nobody answers the phone, the screen will turn off within 30 seconds automatically. If the system connects two or more Monitors, and when the TALK/MONITOR Button is pressed in one Monitor, the other Monitors will automatically shut off.
- 3) When the Monitor is in standby, press TALK/Monitor Button, the screen will display the view of the Door Station, press again you can speak to the Door Station; if wait 30 seconds or press TALK/Monitor again, the screen turns off.
- 4) Press Unlock Button to release the Electronic Latch during monitoring or talking.

### ■ Operation for Adjustment

- 1) During monitoring or talking, directly press the + or - key to adjust the image Brightness. Pressing MENU will sequentially switches to Contrast, Ring Volume, Talk Volume, Screen Ratio adjustment(7" version only), and items and value are showed.
- 2) During adjustment, if no key was pressed within 4 seconds, the OSD will shut off.

### ■ Operation for Intercom

- 1) When system is connected with multi Monitors, intercom is available.
- 2) Intercom calling can be initiated by any Monitor. Press INTERCOM button, IN USE led will lighten, and other Monitors will ring. If TALK/MONITOR is pressed in called Monitor, the intercom talking is connecting.
- 3) If INTERCOM button is pressed, but no Monitor answers, you can press the TALK/MONITOR button to cancel, or it will exit automatically after 30 seconds.
- 4) Intercom function is prior to monitor function, but calling function is always first.

### ■ Operation for Multi Door Stations (Cameras):

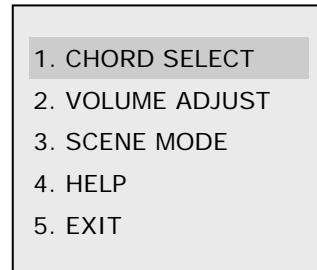
- 1) When Door Station calls, Monitor will display the image of the calling Door Station automatically and conversation will be started by pressing TALK/MONITOR Button.

- 2) The Monitor can survey each Door Station in turn. Press TALK/MONITOR Button in standby, the image of 1st Door Station is displayed firstly, press again to talk; If press TALK/MONITOR one more time, the image will switch to next Door Station, etc. After monitoring the last image, press TALK/MONITOR will exit, or the Monitor will shut off after 30 seconds. During monitoring or talking, press UNLOCK Button will just open the lock connected with the being supervised Door Station.

## ■ Operation for OSD Menu

### Main Menu

- When the Monitor is in standby, press MENU will activate the OSD menu.
- Use + or - Button to move selected items, and press MENU Button to enter. If EXIT item is the next one, the MENU will show the ABOUT Screen and press any Button to exit.
- If no Button was pressed in 20 seconds, the MENU will be closed automatically.



### 1) Chord Select

- After entering the CHORD SELECT screen, the Calling Ring is showed firstly, pressing INTERCOM button will switch to the Intercom Ring setting.
- Use + Button to select next chord tune, and - Button to play the selected chime again, pressing MENU to save and return to main Menu.

### 2) Volume Adjust

- After entering the VOLUME ADJUST screen, ring volume is showed firstly, pressing INTERCOM button will switch to talking volume adjust.
- Use + or - Button to increase or decrease the volume of responding volume, pressing MENU to save and return to main Menu.

### 3) Scene Mode

- After entering the SCENE MODE screen, current scene mode is displayed.
- Use + or - Button to set the image mode among Standard, User config, Soft, and Brighten, pressing MENU to save and return to main Menu.

### 4) Help

- The screen will display simplified operation instruction.
- Working mode configuration (Master or Slave) is also in Help menu.

## 6. MOUNTING INSTRUCTION

### 6.1 Monitor Mount

Accessory fittings:

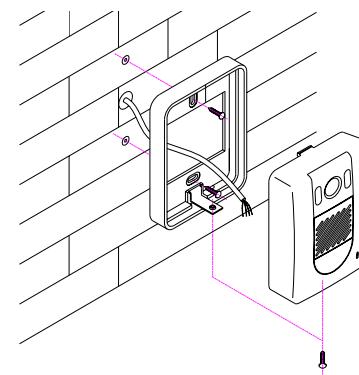
- Bracket (Two 4X25 screws are used for fastening the Mounting Bracket)
- Special 4 core wire which already connected with Monitor.

Installation steps:

- Installation height of Indoor Monitor, usually from 145- 160CM (refer to Sketch Map)
- Fix Bracket on 86 Installation Box or wall surface directly, then install Monitor.

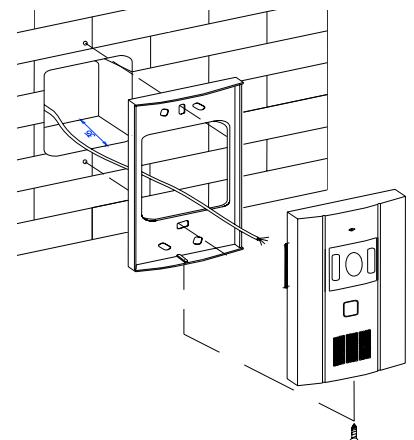
### 6.2 Door Station Mount

- The location for Door Station should keep away from snow, rain, and intensity light.
- The height same as Indoor Monitor, usually at 145~160CM.



installation steps:

Drill a hole (75X75X35mm) on the wall at recommended height, fix mounting bracket, press outdoor station which connected with cables and adjust the camera angle correctly firmly into place, and then fix panel and bracket with screw .



installation steps:

Fix mounting bracket with screw at recommended height, press outdoor station which connected with cables firmly into place, and then fix with screw from bottom.

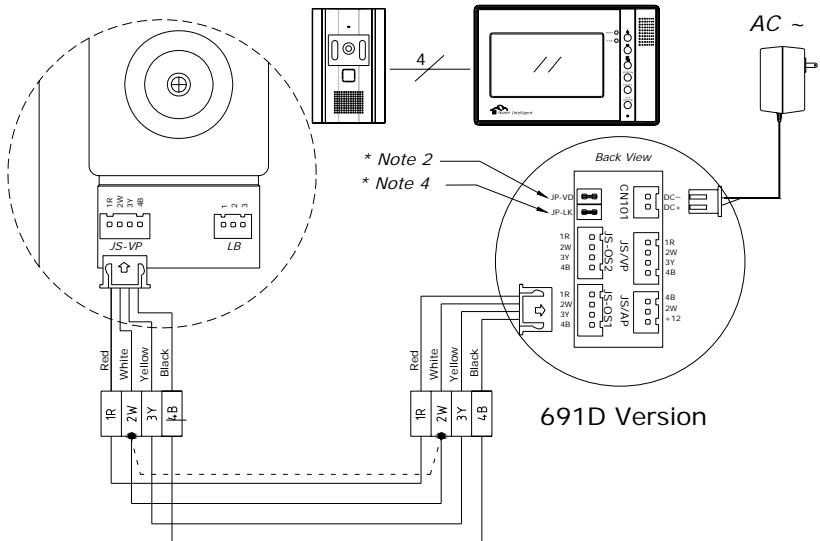
## 7. SYSTEM WIRING

### 7.1 Terminals and descriptions as below:

- **1R** Power positive. +12V present when Door Station calling or being monitored.
- **2W** Power negative (GND)
- **3Y** Image signal (Video signal)
- **4B** Talk and control signal (Audio signal)

It's recommended to use RVVP 4x0.3mm<sup>2</sup> Shielded Cable. And when distance is over 30m, we suggest to use additional co-axle cable SYV- 75-3 (RG-59) connect 3Y and 2W pin.

### 7.2 Basic 1-1 system wiring drawing using VT691D



- Note 1: For Monitors of SMPS, please input the AC plug to the AC socket directly.
- Note 2: JP-VD is used for setting the video impedance. When there is only one Monitor, keep the jumper (which is already on JP-VD). But when multi Monitors are installed, be sure of taking away all JP-VD of Monitors except only the last Monitor.
- Note 3: LB includes 3 wiring Terminals: '1'-Normally Opened Terminal, '2'-Common Terminal, '3'- Normally Closed Terminal. If the latch is activated when powering, connect it between '1' and '2' terminal; if the latch is deactivated when powering, connect it between '2' and '3' terminal.
- Note 4: JP-LK is used for Latch selection, refer to Electronic Latch connecting parts .

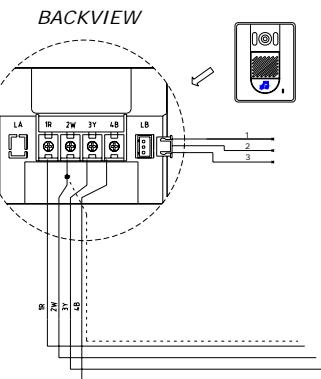
### 7.3 Config VT691D "Master/Slave" Mode

As VT691D can connecting 2 Outdoor Stations, it is necessary to configure the working mode correctly in installations, if multi Monitors or multi Outdoor Stations are involved.

The working mode is "Slave Mode" by default, and can be changed to "Master Mode".

When the Monitor is in standby, press MENU will activate the OSD menu, and operate until the "HELP" Menu is displayed; Press and hold UNLOCK Button for 3 seconds, until working mode tip changed. Please note the configuration is not lose even when power off.

### 7.4 Outdoor Station Connection



For Outdoor station with screw terminals, refer Right drawing for reference.

### 7.5 Connecting Audio Phone

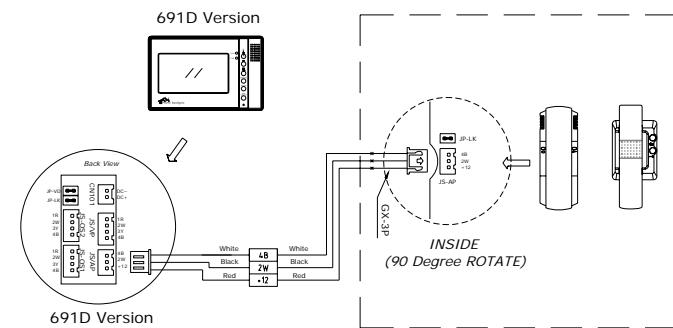
Connect with Audio phone to Indoor Monitor directly without additional Power Supply; JP-LK Jumper is same as the one of Indoor Monitor.

Connect JS-AP Terminal in Audio Phone's PCB board to JS-AP Terminal of Indoor Monitor.

Two 3-core Terminal Wirings standby, the color in turn is :

1-RED(+12), 2-BLACK(2W), 3-WHITE(4B)

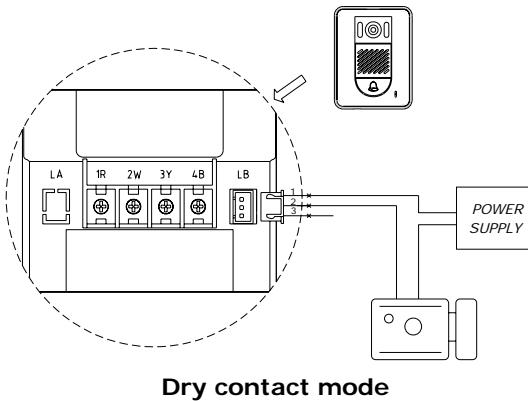
The rest wiring and Shield Layer will be connected to the 2W wirings in Both



## 7.5 Electronic Latch connecting

- ❖ **With Jumper (Dry contact mode).**

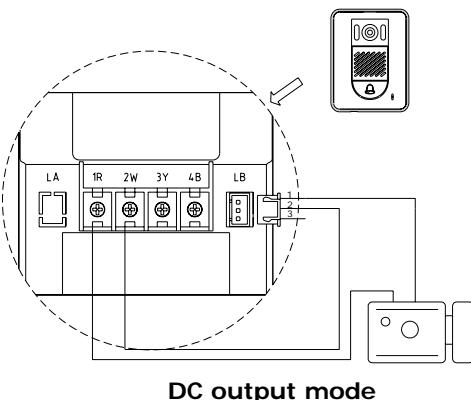
Extra power supply for latch must be installed, and nearly all kinds of electronic latch can be used, please see Note 2 for reference. Incidentally, in this mode, you can continue talking and monitoring during unlock operation.



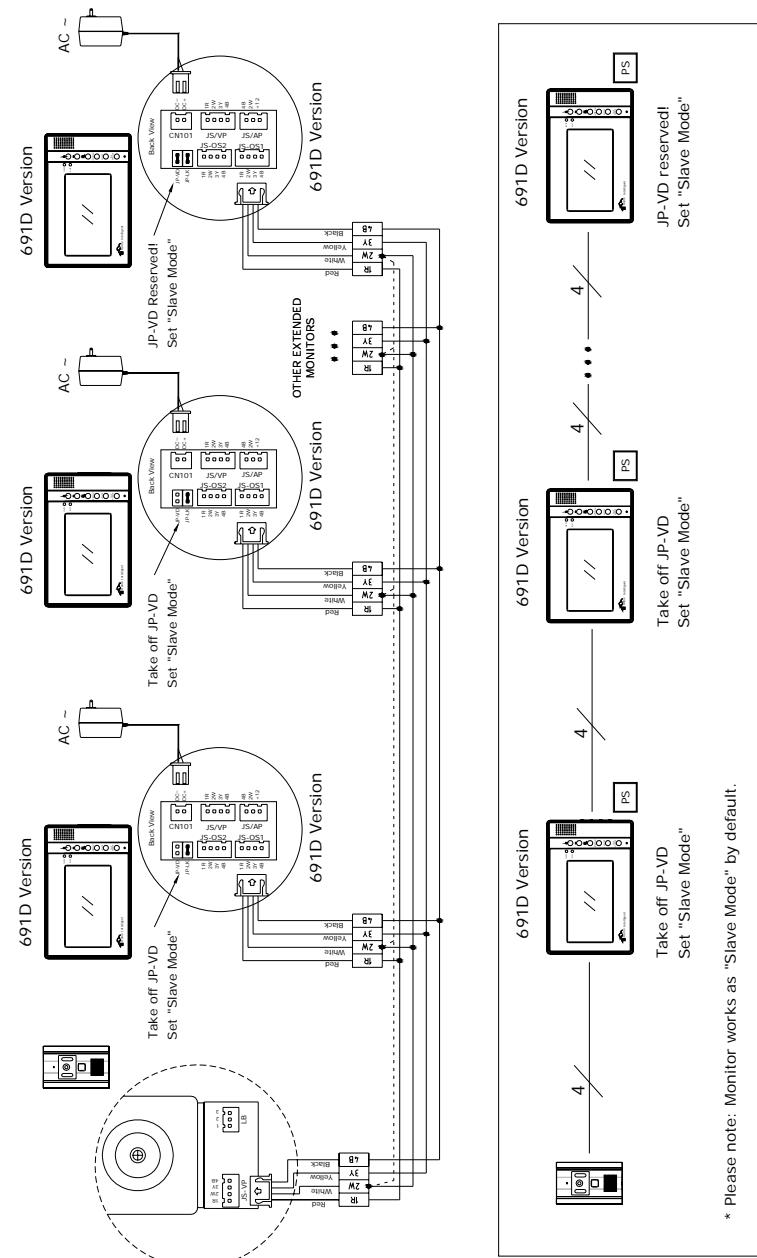
- ❖ **Without Jumper (DC output for latch mode)**

The Latch can directly connect with the Door Station and the power through monitor. During unlock operation, the monitor will close screen automatically. The Latch is rated voltage is 12V, less than 500mA consumption.

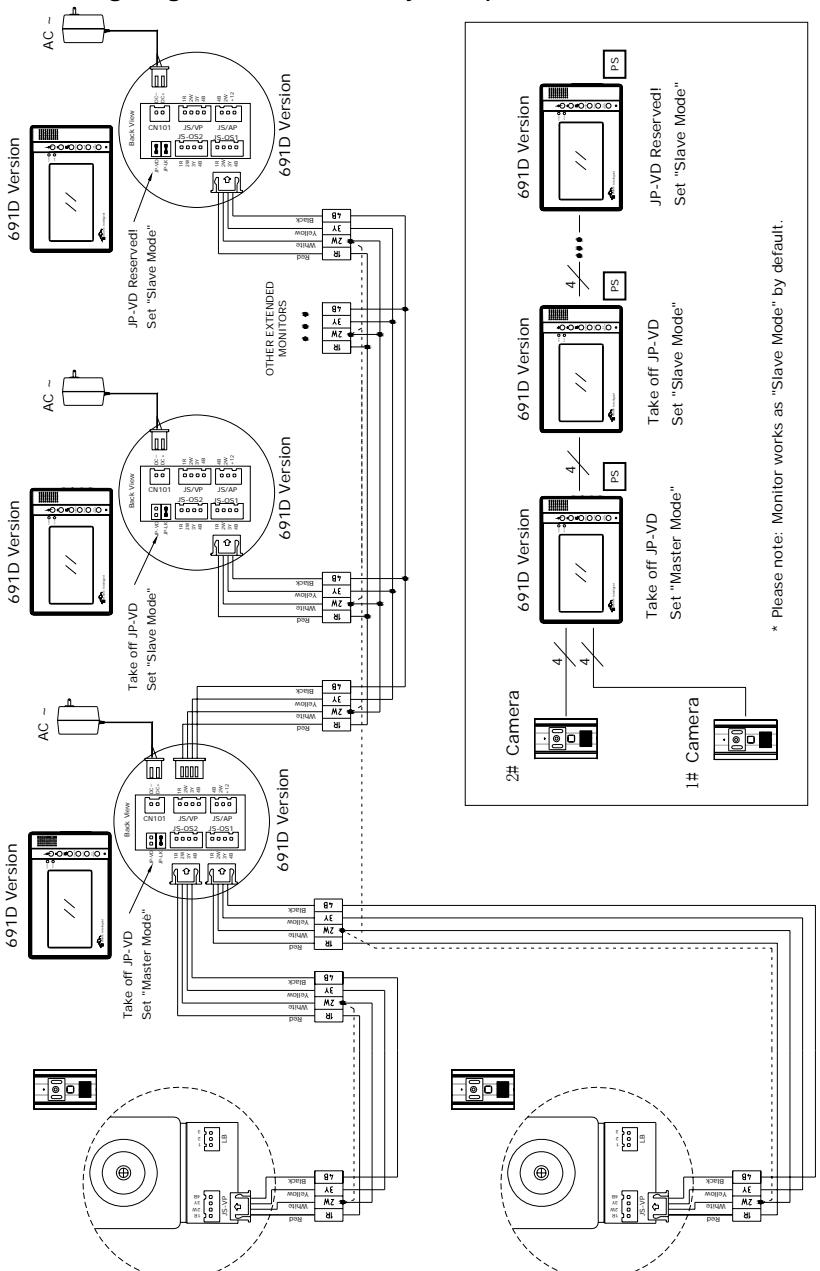
Note: Please use right and specific Latch.



## 7.6 Wiring Diagram of Extended Monitors (1 Door Station to N VT691D )



## 7.7 Wiring Diagram For Extended system ( 2 Door Stations to N VT691D )



## 8. Specifications

- 1) Power supply for indoor monitor:  
DC 15~18V (supplied by Adaptor); AC 100~240V (supplied by SMPS)
- 2) Power supply for Door Station: DC 10~12V (Supplied by Indoor Monitor)
- 3) Audio Phone : DC 10~12V (Supplied by Indoor Monitor)
- 4) Power consumption: Standby 0.5W; Working status 15W (for kits)
- 5) Monitor screen: 5.6 or 7 Inch color TFT-LCD
- 6) Camera Lens: 3.6mm, 72 degree horizontal visual angle
- 7) Resolution: >300 TV lines
- 8) Video signal: 1Vp-p, 75Ω, CCIR standard
- 9) Connection mode: 4 wiring, polar
- 10) Monitor time: 30 seconds
- 11) Talking time: 90 seconds

## 9. PRECAUTIONS

- 1) All parts should be protected from violence vibration. And not allow be impacting, knocking and dropping.
- 2) For clean the Lens& Screen, using hands or wet cloth is forbidden.
- 3) Please do the cleanliness with soft cotton cloth, please do not use the organic or chemical clean impregnate. If necessary, please use a little pure water or dilute soap water to clean the dust.
- 4) Image distortion may occur if the video door phone is mounted too close to magnetic field e. g. Microwaves, TV, computer etc.
- 5) Please keep away the video door monitor from wet, high temperature, dust, and caustic and oxidation gas in order to avoid any unpredictable damage.

## 10. TROUBLE SHOOTING

After trying the methods below, if the problem persists, contact your nearest local dealer.

Phenomenon	Check points
No power	Is the power cord properly inserted in the AC outlet, or the AC is not supplied?
No sound and calling	Make sure that 4B is connected correctly.
No Image Visible	Is the Is the Brightness or Color correctly adjusted? Make sure that 3Y is connected correctly.
No enough volume	Is the Ring or Talk Volume correctly adjusted?
The image isn't clear	Is the protect cover film on the Door Camera lens removed? Is the Brightness or Color correctly adjusted? Make sure the lens of outdoor camera is clean Make sure the JP-VD jumper is correctly set

### WARNING

- Don't attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose this product to rain or moisture.

The design and specifications can be changed without notice to the user.

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